

PATENT COOPERATION TREATY

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C.20231
ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

Date of mailing (day/month/year) 17 October 2000 (17.10.00)	
International application No. PCT/GB00/00593	Applicant's or agent's file reference J00041080 WO
International filing date (day/month/year) 18 February 2000 (18.02.00)	Priority date (day/month/year) 19 February 1999 (19.02.99)
Applicant WYRWAS, Richard	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

15 September 2000 (15.09.00)

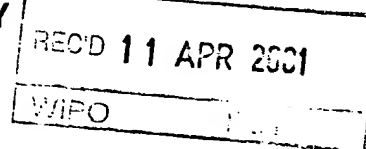
☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	Authorized officer Pascal Piriou Telephone No.: (41-22) 338.83.38
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

2

Applicant's or agent's file reference J00041080 WO		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/GB00/00593	International filing date (day/month/year) 18/02/2000	Priority date (day/month/year) 19/02/1999	
International Patent Classification (IPC) or national classification and IPC H04B7/185			
Applicant ICO SERVICES LIMITED et al.			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 15/09/2000	Date of completion of this report 11.04.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016	Authorized officer Bischof, J-L Telephone No. +31 70 340 2607 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00593

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-28 as originally filed

Claims, No.:

1-15 as originally filed

Drawings, sheets:

1/11-11/11 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/00593

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-15
	No:	Claims	

Inventive step (IS)	Yes:	Claims	
	No:	Claims	1-15

Industrial applicability (IA)	Yes:	Claims	1-15
	No:	Claims	

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00593

The examination is being carried out on **the application documents as originally filed.**

The following documents (D) are referred to in this communication; the numbering will be adhered to in the rest of the procedure:

D1: EP-A- 0 858 177 (Globalstar),
D2: EP-A- 0 840 463 (Telediffusion de France).

1. The present application does not meet the requirements of Articles 33 PCT, because the subject-matter of claims 1-15 does not involve an inventive step in the sense of Article 33(3) PCT.

1.1. The closest state of the art is represented by D1.

1.2. D1 discloses a method of mitigating interference in a user uplink signal received at a satellite from a terrestrial user terminal (see claim 1).

D2 discloses a method comprising the steps of: generating an estimated interference signal in accordance with one or more parameters; processing a signal derived from said uplink signal in accordance with said estimated interference signal to reduce the magnitude of corresponding components within said uplink signal, and; varying one or more parameters of said estimated interference signal, to determine a respective value of each said parameter to minimise the level of said components in said uplink signal (see claim 1).

1.3. The present application relates to satellite communication. The problem in such a system is to reduce interference which avoid correct reception of the transmitted signals. Such a system and such a problem is known from D1. Solving interference problems by estimating interference signals and processing the received signal accordingly are known in the field of communication. See for example D2, claim 1. It is obvious for a man skilled in the art to apply the teaching of D2 to a system like the one disclosed in D1. Such a combination of the teaching of D1 and D2 leads to

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/00593

the subject matter of claim 1 which therefore lacks inventive step (Article 33(3) PCT).

- 1.4. The subject-matter of independent claims 5 and 11 being identical to the subject-matter of claim 1, these claims are not inventive (Article 33(3) PCT).
- 1.5. The dependent claims do not appear to contain any additional features which, in combination with the features of any claim to which they refer involve an inventive step, their subject-matter is indeed either derivable directly from the cited documents D1 and D2 or concerns simple embodiments without inventive merit in themselves.
2. The present application does not meet the requirement of Article 6 PCT for lack of clarity of claim 12.

Claim 12 is dependent of independent claim 11 and refers to claim 5. The subject-matter of claim 5 should have been explicitly disclosed in claim 12.

3. To meet the requirements of Rule 5.1(a)(ii) PCT, the documents D1 and D2 should have been identified in the description and the relevant background art disclosed therein should have been briefly discussed.
4. Reference signs in parentheses should have been inserted in the claims to increase their intelligibility, Rule 6.2(b) PCT. This applies to both the preamble and characterising portion.
5. It would have been appropriate to draft the independent claims in the two part form as required by Rule 6.3(b) PCT, whereby the features known from D1 and D2 should have been placed in the preamble.
